

FIGURE 1

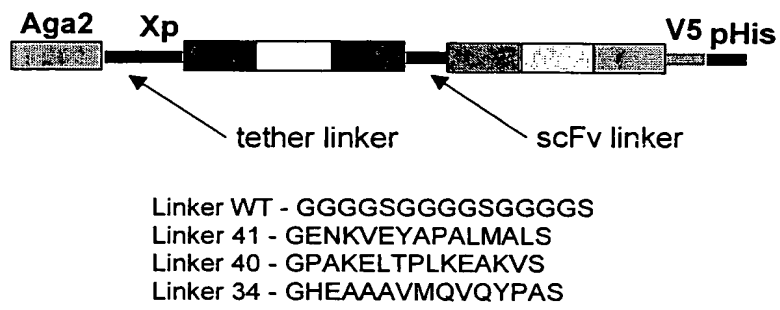


FIGURE 2

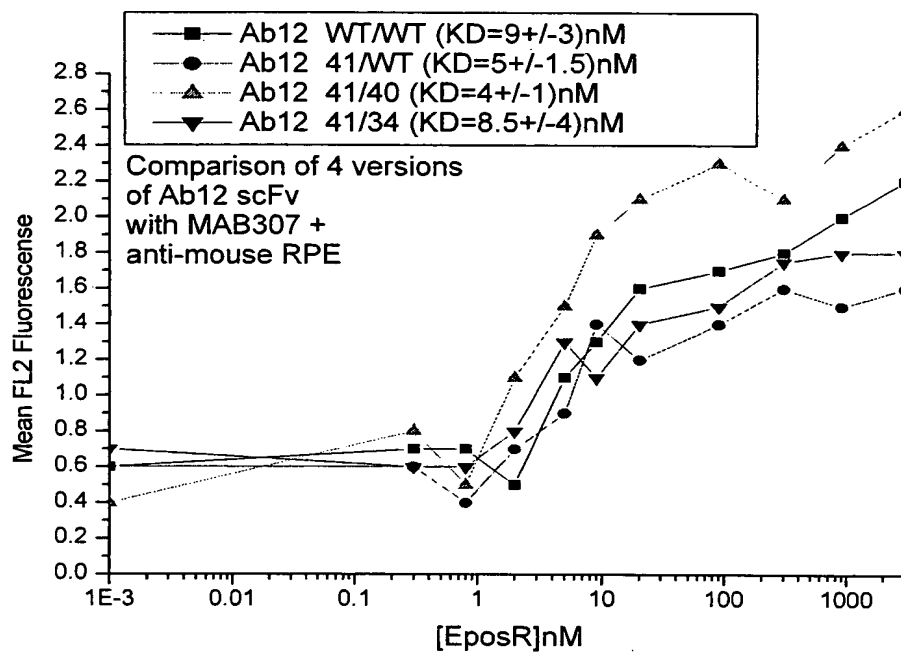


FIGURE 3

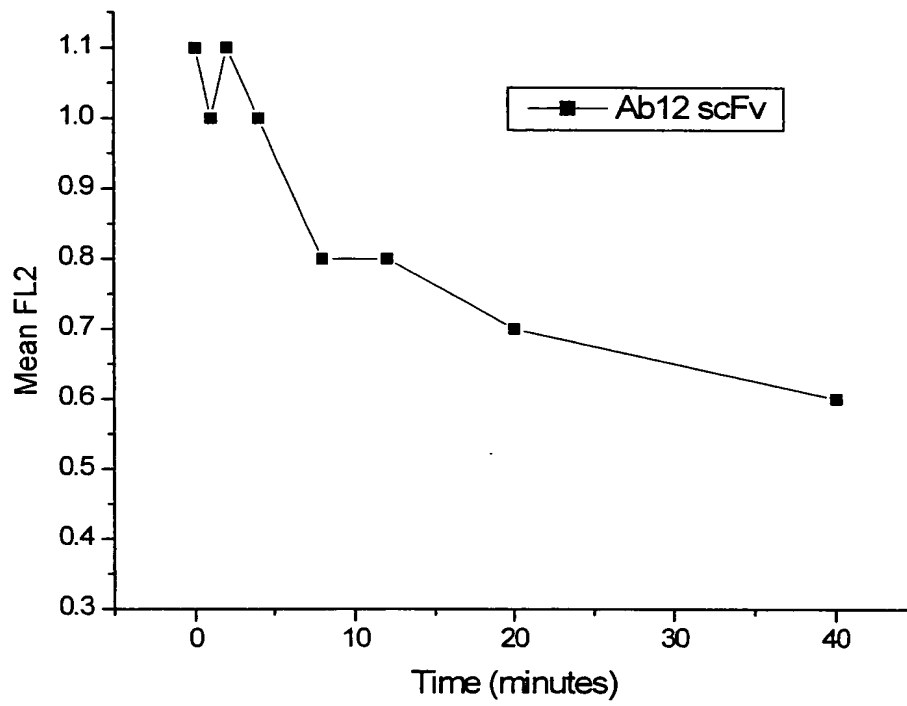


FIGURE 4

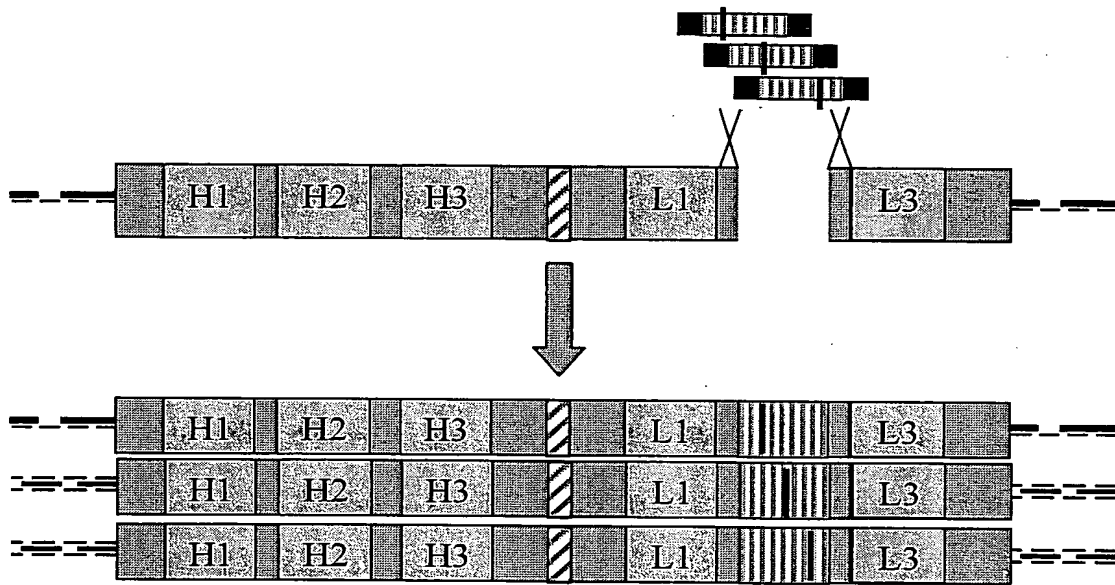


FIGURE 5

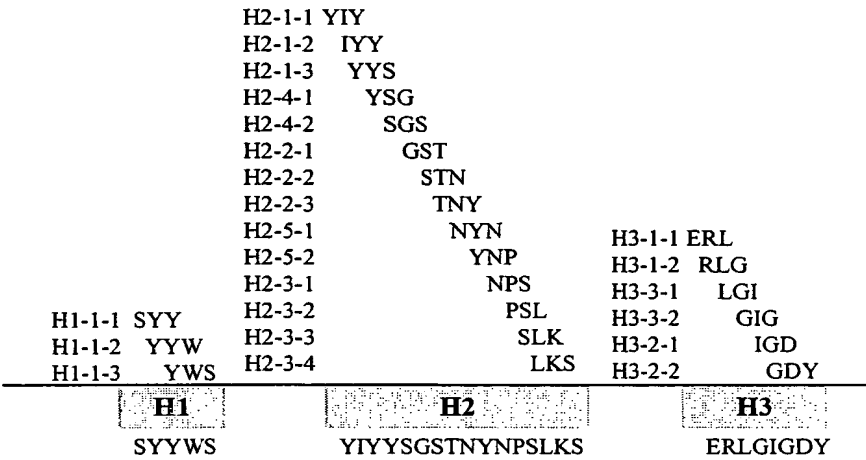


FIGURE 6

| | | | |
|--|-----|---|---|
| L1-1-1 | RAS | | |
| L1-1-2 | ASQ | | |
| L1-1-3 | SQG | | |
| L1-3-1 | QGI | | L3-1-1 LQH |
| L1-3-2 | GIR | | L3-1-2 QHN |
| L1-2-1 | IRN | L2-1-1 AAS | L3-3-1 HNT |
| L1-2-2 | RND | L2-1-2 ASS | L3-3-2 NTY |
| L1-2-3 | NDL | L2-1-3 SSL | L3-2-1 TYP |
| L1-2-4 | DLG | L2-1-4 SLQ | L3-2-2 YPP |
| | | L2-1-5 LQS | L3-2-3 PPT |
| <div style="border: 1px solid black; padding: 5px; text-align: center;">L1</div> <p>RASQGI RNDLG</p> | | <div style="border: 1px solid black; padding: 5px; text-align: center;">L2</div> <p>AASSLQS</p> | <div style="border: 1px solid black; padding: 5px; text-align: center;">L3</div> <p>LQHNTYPPT</p> |

FIGURE 7

| SEQ ID NO: | Ab | FR1 | CDR1 | FR2 | CDR2 |
|------------|-----------|----------------------------|-------------------|----------------|--|
| 5 | Germline | QVQLQESGPGGLVKPSETLSLTCTVS | GSISYYWS | WIRQPPGKGLEWIG | YIYSGSTNYPNPSLKS |
| 6 | 12 | QVQLQESGPGGLVKPSETLSLTCTVS | GA SISYYWS | WIRQPPGKGLEWIG | YIYSGSTNYPNPSLKS |
| 7 | 12.6 | QVQLQESGPGGLVKPSETLSLTCTVS | GA SISYYWS | WIRQPPGKGLEWIG | YI GGE GSTNYPNPSLKS |
| 8 | 12.56 | QVQLQESGPGGLVKPSETLSLTCTVS | GA SISYYWS | WIRQPPGKGLEWIG | YI AGT GSTNYPNPSLKS |
| 9 | 12.118 | QVQLQESGPGGLVKPSETLSLTCTVS | GA SISYYWS | WIRQPPGKGLEWIG | YI GYS GSTNYPNPSLKS |
| 10 | 12.119 | QVQLQESGPGGLVKPSETLSLTCTVS | GA SISYYWS | WIRQPPGKGLEWIG | YI GSG GSTNYPNPSLKS |
| 11 | 12.120 | QVQLQESGPGGLVKPSETLSLTCTVS | GA SISYYWS | WIRQPPGKGLEWIG | YI YEG GSTNYPNPSLKS |
| 12 | 12.121 | QVQLQESGPGGLVKPSETLSLTCTVS | GA SISYYWS | WIRQPPGKGLEWIG | YI GGS GSTNYPNPSLKS |
| 13 | 12.122 | QVQLQESGPGGLVKPSETLSLTCTVS | GA SISYYWS | WIRQPPGKGLEWIG | YI YGE GSTNYPNPSLKS |
| 14 | 12.123 | QVQLQESGPGGLVKPSETLSLTCTVS | GA SISYYWS | WIRQPPGKGLEWIG | YI GYE GSTNYPNPSLKS |
| 15 | Consensus | QVQLQESGPGGLVKPSETLSLTCTVS | GA SISYYWS | WIRQPPGKGLEWIG | YI X₁X₂X₃ GSTNYPNPSLKS |

| Ab | FR3 | CDR3 | FR4 |
|-----------|--|---------|---------------|
| Germline | RVTISVDTSKNQFSLKLSVTAADTAVYYCAR | ERLGIDY | WGQGTLLTVTVSS |
| 12 | RVTISVDTSKNQFSLK RS VTAADTAVYYCAR | ERLGIDY | WGQGTLLTVTVSS |
| 12.6 | RVTISVDTSKNQFSLK RS VTAADTAVYYCAR | ERLGIDY | WGQGTLLTVTVSS |
| 12.56 | RVTISVDTSKNQFSLK RS VTAADTAVYYCAR | ERLGIDY | WGQGTLLTVTVSS |
| 12.118 | RVTISVDTSKNQFSLK RS VTAADTAVYYCAR | ERLGIDY | WGQGTLLTVTVSS |
| 12.119 | RVTISVDTSKNQFSLK RS VTAADTAVYYCAR | ERLGIDY | WGQGTLLTVTVSS |
| 12.120 | RVTISVDTSKNQFSLK RS VTAADTAVYYCAR | ERLGIDY | WGQGTLLTVTVSS |
| 12.121 | RVTISVDTSKNQFSLK RS VTAADTAVYYCAR | ERLGIDY | WGQGTLLTVTVSS |
| 12.122 | RVTISVDTSKNQFSLK RS VTAADTAVYYCAR | ERLGIDY | WGQGTLLTVTVSS |
| 12.123 | RVTISVDTSKNQFSLK RS VTAADTAVYYCAR | ERLGIDY | WGQGTLLTVTVSS |
| Consensus | RVTISVDTSKNQFSLK RS VTAADTAVYYCAR | ERLGIDY | WGQGTLLTVTVSS |

FIGURE 8

| SEQ ID NO | Ab | FR1 | CDR1 | FR2 | CDR2 |
|-----------|----------|-------------------------|------------|-----------------|---------|
| 16 | Germline | DIQMTQSPSSLSASVGDRVITTC | RASQIRNDLG | WYQQKPGKAPKRLIY | AASSLQS |
| 17 | 12 | DIQLTQSPSSLSASVGDRVITTC | RASQIRNDLG | WYQQKPGKAPKRLIY | AASSLQS |
| 17 | 12.6 | DIQLTQSPSSLSASVGDRVITTC | RASQIRNDLG | WYQQKPGKAPKRLIY | AASSLQS |
| 17 | 12.56 | DIQLTQSPSSLSASVGDRVITTC | RASQIRNDLG | WYQQKPGKAPKRLIY | AASSLQS |
| 17 | 12.118 | DIQLTQSPSSLSASVGDRVITTC | RASQIRNDLG | WYQQKPGKAPKRLIY | AASSLQS |
| 17 | 12.119 | DIQLTQSPSSLSASVGDRVITTC | RASQIRNDLG | WYQQKPGKAPKRLIY | AASSLQS |
| 17 | 12.120 | DIQLTQSPSSLSASVGDRVITTC | RASQIRNDLG | WYQQKPGKAPKRLIY | AASSLQS |
| 17 | 12.121 | DIQLTQSPSSLSASVGDRVITTC | RASQIRNDLG | WYQQKPGKAPKRLIY | AASSLQS |
| 17 | 12.122 | DIQLTQSPSSLSASVGDRVITTC | RASQIRNDLG | WYQQKPGKAPKRLIY | AASSLQS |
| 17 | 12.123 | DIQLTQSPSSLSASVGDRVITTC | RASQIRNDLG | WYQQKPGKAPKRLIY | AASSLQS |

| Ab | FR3 | CDR3 | FR4 |
|----------|---------------------------------|-----------|------------|
| Germline | GVPSRFGSGSGTEFTLTISSLQPEDFATYYC | LQHNSYPPT | FGQGTKVEIK |
| 12 | GVPSRFGSGSGTEFTLTISSLQPEDFATYYC | LQHNTYPPT | FGQGTKVEIK |
| 12.6 | GVPSRFGSGSGTEFTLTISSLQPEDFATYYC | LQHNTYPPT | FGQGTKVEIK |
| 12.56 | GVPSRFGSGSGTEFTLTISSLQPEDFATYYC | LQHNTYPPT | FGQGTKVEIK |
| 12.118 | GVPSRFGSGSGTEFTLTISSLQPEDFATYYC | LQHNTYPPT | FGQGTKVEIK |
| 12.119 | GVPSRFGSGSGTEFTLTISSLQPEDFATYYC | LQHNTYPPT | FGQGTKVEIK |
| 12.120 | GVPSRFGSGSGTEFTLTISSLQPEDFATYYC | LQHNTYPPT | FGQGTKVEIK |
| 12.121 | GVPSRFGSGSGTEFTLTISSLQPEDFATYYC | LQHNTYPPT | FGQGTKVEIK |
| 12.122 | GVPSRFGSGSGTEFTLTISSLQPEDFATYYC | LQHNTYPPT | FGQGTKVEIK |
| 12.123 | GVPSRFGSGSGTEFTLTISSLQPEDFATYYC | LQHNTYPPT | FGQGTKVEIK |

FIGURE 9

A. Ab12 VH nucleic acid (SEQ ID NO:36) and
corresponding amino acid sequence (SEQ ID NO:6)Ab

```

      Q V Q L Q E S G P G L V K P
1  CAGGTGCAGCTGCAGGAGTCGGGCCCAGGACTGGTGAAGCCT
   S E T L S L T C T V S G A S
43 TCGGAGACCCTGTCCCTCACCTGCACTGTCTCTGGTGCCTCC
   I S S Y Y W S W I R Q P P G
85 ATCAGTAGTTACTACTGGAGCTGGATCCGGCAGCCCCCAGGG
   K G L E W I G Y I Y Y S G S
127 AAGGGACTGGAGTGGATTGGGTATATCTATTACAGTGGGAGC
   T N Y N P S L K S R V T I S
169 ACCAACTACAACCCCTCCCTCAAGAGTCGAGTCACCATATCA
   V D T S K N Q F S L K L R S
211 GTAGACACGTCCAAGAACCAGTTCTCCCTGAAGCTGAGGTCT
   V T A A D T A V Y Y C A R E
253 GTGACCGCTGCGGACACGGCCGTGTATTACTGTGCGAGAGAG
   R L G I G D Y W G Q G T L V
295 CGACTGGGGATCGGGGACTACTGGGGCCAGGGAACCCTGGTC
   T V S S
337 ACCGTCTCCTCA

```

B. Ab12.6 VH nucleic acid (SEQ ID NO:27) and
corresponding amino acid sequence (SEQ ID NO:7)

```

      Q V Q L Q E S G P G L V K P
1  CAGGTGCAGCTGCAGGAGTCGGGCCCAGGACTGGTGAAGCCT
   S E T L S L T C T V S G A S
43 TCGGAGACCCTGTCCCTCACCTGCACTGTCTCTGGTGCCTCC
   I S S Y Y W S W I R Q P P G
85 ATCAGTAGTTACTACTGGAGCTGGATCCGGCAGCCCCCAGGG
   K G L E W I G Y I G G E G S
127 AAGGGACTGGAGTGGATTGGGTATATCGGGGGGAGGGGAGC
   T N Y N P S L K S R V T I S
169 ACCAACTACAACCCCTCCCTCAAGAGTCGAGTCACCATATCA
   V D T S K N Q F S L K L R S
211 GTAGACACGTCCAAGAACCAGTTCTCCCTGAAGCTGAGGTCT
   V T A A D T A V Y Y C A R E
253 GTGACCGCTGCGGACACGGCCGTGTATTACTGTGCGAGAGAG
   R L G I G D Y W G Q G T L V
295 CGACTGGGGATCGGGGACTACTGGGGCCAGGGAACCCTGGTC
   T V S S
337 ACCGTCTCCTCA

```

FIG. 9 (con't)

C. Ab12.56 VH nucleic acid (SEQ ID NO:28) and
corresponding amino acid sequence (SEQ ID NO:8)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q | V | Q | L | Q | E | S | G | P | G | L | V | K | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | C | A | G | G | T | G | C | A | G | C | T | G | C | A | G | G | A | G | T | C | G | G | G | C | C | C | A | G | G | A | C | T | G | G | T | G | A | A | G | C | C | T |
| | S | E | T | L | S | L | T | C | T | V | S | G | A | S | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 43 | T | C | G | G | A | G | A | C | C | T | G | T | C | C | C | T | C | A | C | C | T | G | C | A | C | T | G | T | C | T | C | T | G | G | T | G | C | C | T | C | | |
| | I | S | S | Y | Y | W | S | W | I | R | Q | P | P | G | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | A | T | C | A | G | T | A | G | T | T | A | C | T | A | C | T | G | G | A | G | C | T | G | G | A | T | C | C | G | G | C | A | G | C | C | C | C | C | A | G | G | G |
| | K | G | L | E | W | I | G | Y | I | A | G | T | G | S | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 127 | A | A | G | G | G | A | C | T | G | G | A | G | T | G | G | A | T | T | G | G | G | T | A | T | A | T | C | G | C | C | G | G | G | A | C | G | G | G | G | A | G | C |
| | T | N | Y | N | P | S | L | K | S | R | V | T | I | S | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 169 | A | C | C | A | A | C | T | A | C | A | A | C | C | C | T | C | C | C | T | C | A | A | G | A | G | T | C | G | A | G | T | C | A | C | C | A | T | A | T | C | A | |
| | V | D | T | S | K | N | Q | F | S | L | K | L | R | S | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 211 | G | T | A | G | A | C | A | G | T | C | C | A | A | G | A | A | C | C | A | G | T | T | C | C | C | T | G | A | A | G | C | T | G | A | G | G | T | C | T | | | |
| | V | T | A | A | D | T | A | V | Y | Y | C | A | R | E | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 253 | G | T | G | A | C | C | G | C | T | G | C | G | A | C | A | C | G | G | C | C | G | T | G | T | A | T | A | C | T | G | T | G | C | G | A | G | A | G | A | G | | |
| | R | L | G | I | G | D | Y | W | G | Q | G | T | L | V | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 295 | C | G | A | C | T | G | G | G | G | A | T | C | G | G | G | A | C | T | A | C | T | G | G | G | G | C | C | A | G | G | G | A | A | C | C | T | G | G | T | C | | |
| | T | V | S | S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 337 | A | C | C | G | T | C | T | C | C | T | C | A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

D. Ab12.118 VH nucleic acid (SEQ ID NO:29) and
corresponding amino acid sequence (SEQ ID NO:9)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q | V | Q | L | Q | E | S | G | P | G | L | V | K | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | C | A | G | G | T | G | C | A | G | C | T | G | C | A | G | G | A | G | T | C | G | G | G | C | C | C | A | G | G | A | C | T | G | G | T | G | A | A | G | C | C | T |
| | S | E | T | L | S | L | T | C | T | V | S | G | A | S | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 43 | T | C | G | G | A | G | A | C | C | T | G | T | C | C | C | T | C | A | C | C | T | G | C | A | C | T | G | T | C | T | C | T | G | G | T | G | C | C | T | C | | |
| | I | S | S | Y | Y | W | S | W | I | R | Q | P | P | G | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | A | T | C | A | G | T | A | G | T | T | A | C | T | A | C | T | G | G | A | G | C | T | G | G | A | T | C | C | G | G | C | A | G | C | C | C | C | C | A | G | G | G |
| | K | G | L | E | W | I | G | Y | I | G | Y | S | G | S | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 127 | A | A | G | G | G | A | C | T | G | G | A | G | T | G | G | A | T | T | G | G | G | T | A | T | A | T | C | G | G | T | T | A | C | A | G | T | G | G | G | A | G | C |
| | T | N | Y | N | P | S | L | K | S | R | V | T | I | S | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 169 | A | C | C | A | A | C | T | A | C | A | A | C | C | C | T | C | C | C | T | C | A | A | G | A | G | T | C | G | A | G | T | C | A | C | C | A | T | A | T | C | A | |
| | V | D | T | S | K | N | Q | F | S | L | K | L | R | S | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 211 | G | T | A | G | A | C | A | G | T | C | C | A | A | G | A | A | C | C | A | G | T | T | C | C | C | T | G | A | A | G | C | T | G | A | G | G | T | C | T | | | |
| | V | T | A | A | D | T | A | V | Y | Y | C | A | R | E | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 253 | G | T | G | A | C | C | G | C | T | G | C | G | A | C | A | C | G | G | C | C | G | T | G | T | A | T | A | C | T | G | T | G | C | G | A | G | A | G | A | G | | |
| | R | L | G | I | G | D | Y | W | G | Q | G | T | L | V | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 295 | C | G | A | C | T | G | G | G | G | A | T | C | G | G | G | A | C | T | A | C | T | G | G | G | G | C | C | A | G | G | G | A | A | C | C | T | G | G | T | C | | |
| | T | V | S | S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 337 | A | C | C | G | T | C | T | C | C | T | C | A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

FIG. 9 (con't)

E. Ab12.119 VH nucleic acid (SEQ ID NO:30) and corresponding amino acid sequence (SEQ ID NO:10)

```

      Q V Q L Q E S G P G L V K P
1  CAGGTGCAGCTGCAGGAGTCGGGCCCAGGACTGGTGAAGCCT
   S E T L S L T C T V S G A S
43 TCGGAGACCCTGTCCCTCACCTGCACTGTCTCTGGTGCCTCC
   I S S Y Y W S W I R Q P P G
85 ATCAGTAGTTACTACTGGAGCTGGATCCGGCAGCCCCCAGGG
   K G L E W I G Y I Y G S G S
127 AAGGGACTGGAGTGGATTGGGTATATCTATGGCAGTGGGAGC
   T N Y N P S L K S R V T I S
169 ACCAACTACAACCCCTCCCTCAAGAGTCGAGTCACCATATCA
   V D T S K N Q F S L K L R S
211 GTAGACACGTCCAAGAACCAGTTCTCCCTGAAGCTGAGGTCT
   V T A A D T A V Y Y C A R E
253 GTGACCGCTGCGGACACGGCCGTGTATTACTGTGCGAGAGAG
   R L G I G D Y W G Q G T L V
295 CGACTGGGGATCGGGGACTACTGGGGCCAGGGAACCCTGGTC
   T V S S
337 ACCGTCTCCTCA

```

F. Ab12.120 VH nucleic acid (SEQ ID NO:31) and corresponding amino acid sequence (SEQ ID NO:11)

```

      Q V Q L Q E S G P G L V K P
1  CAGGTGCAGCTGCAGGAGTCGGGCCCAGGACTGGTGAAGCCT
   S E T L S L T C T V S G A S
43 TCGGAGACCCTGTCCCTCACCTGCACTGTCTCTGGTGCCTCC
   I S S Y Y W S W I R Q P P G
85 ATCAGTAGTTACTACTGGAGCTGGATCCGGCAGCCCCCAGGG
   K G L E W I G Y I Y Y E G S
127 AAGGGACTGGAGTGGATTGGGTATATCTATTACGAAGGGAGC
   T N Y N P S L K S R V T I S
169 ACCAACTACAACCCCTCCCTCAAGAGTCGAGTCACCATATCA
   V D T S K N Q F S L K L R S
211 GTAGACACGTCCAAGAACCAGTTCTCCCTGAAGCTGAGGTCT
   V T A A D T A V Y Y C A R E
253 GTGACCGCTGCGGACACGGCCGTGTATTACTGTGCGAGAGAG
   R L G I G D Y W G Q G T L V
295 CGACTGGGGATCGGGGACTACTGGGGCCAGGGAACCCTGGTC
   T V S S
337 ACCGTCTCCTCA

```

FIGURE 9 (cont.)

G. Ab12.121 VH nucleic acid (SEQ ID NO:32) and
corresponding amino acid sequence (SEQ ID NO:12)

```

      Q V Q L Q E S G P G L V K P
1  CAGGTGCAGCTGCAGGAGTCGGGCCCAGGACTGGTGAAGCCT
   S E T L S L T C T V S G A S
43 TCGGAGACCCTGTCCCTCACCTGCACTGTCTCTGGTGCCTCC
   I S S Y Y W S W I R Q P P G
85 ATCAGTAGTTACTACTGGAGCTGGATCCGGCAGCCCCCAGGG
   K G L E W I G Y I G G S G S
127 AAGGGACTGGAGTGGATTGGGTATATCGGGGGGTCGGGGGAGC
   T N Y N P S L K S R V T I S
169 ACCAACTACAACCCCTCCCTCAAGAGTCGAGTCACCATATCA
   V D T S K N Q F S L K L R S
211 GTAGACACGTCCAAGAACCAGTTCTCCCTGAAGCTGAGGTCT
   V T A A D T A V Y Y C A R E
253 GTGACCGCTGCGGACACGGCCGTGTATTACTGTGCGAGAGAG
   R L G I G D Y W G Q G T L V
295 CGACTGGGGATCGGGGACTACTGGGGCCAGGGAACCCTGGTC
   T V S S
337 ACCGTCTCCTCA

```

H. Ab12.122 VH nucleic acid (SEQ ID NO:33) and
corresponding amino acid sequence (SEQ ID NO:13)

```

      Q V Q L Q E S G P G L V K P
1  CAGGTGCAGCTGCAGGAGTCGGGCCCAGGACTGGTGAAGCCT
   S E T L S L T C T V S G A S
43 TCGGAGACCCTGTCCCTCACCTGCACTGTCTCTGGTGCCTCC
   I S S Y Y W S W I R Q P P G
85 ATCAGTAGTTACTACTGGAGCTGGATCCGGCAGCCCCCAGGG
   K G L E W I G Y I Y G E G S
127 AAGGGACTGGAGTGGATTGGGTATATCTATGGGGAAGGGAGC
   T N Y N P S L K S R V T I S
169 ACCAACTACAACCCCTCCCTCAAGAGTCGAGTCACCATATCA
   V D T S K N Q F S L K L R S
211 GTAGACACGTCCAAGAACCAGTTCTCCCTGAAGCTGAGGTCT
   V T A A D T A V Y Y C A R E
253 GTGACCGCTGCGGACACGGCCGTGTATTACTGTGCGAGAGAG
   R L G I G D Y W G Q G T L V
295 CGACTGGGGATCGGGGACTACTGGGGCCAGGGAACCCTGGTC
   T V S S
337 ACCGTCTCCTCA

```

FIGURE 9 (cont.)

I. Ab12.123 VH nucleic acid (SEQ ID NO:34) and
corresponding amino acid sequence (SEQ ID NO:14)

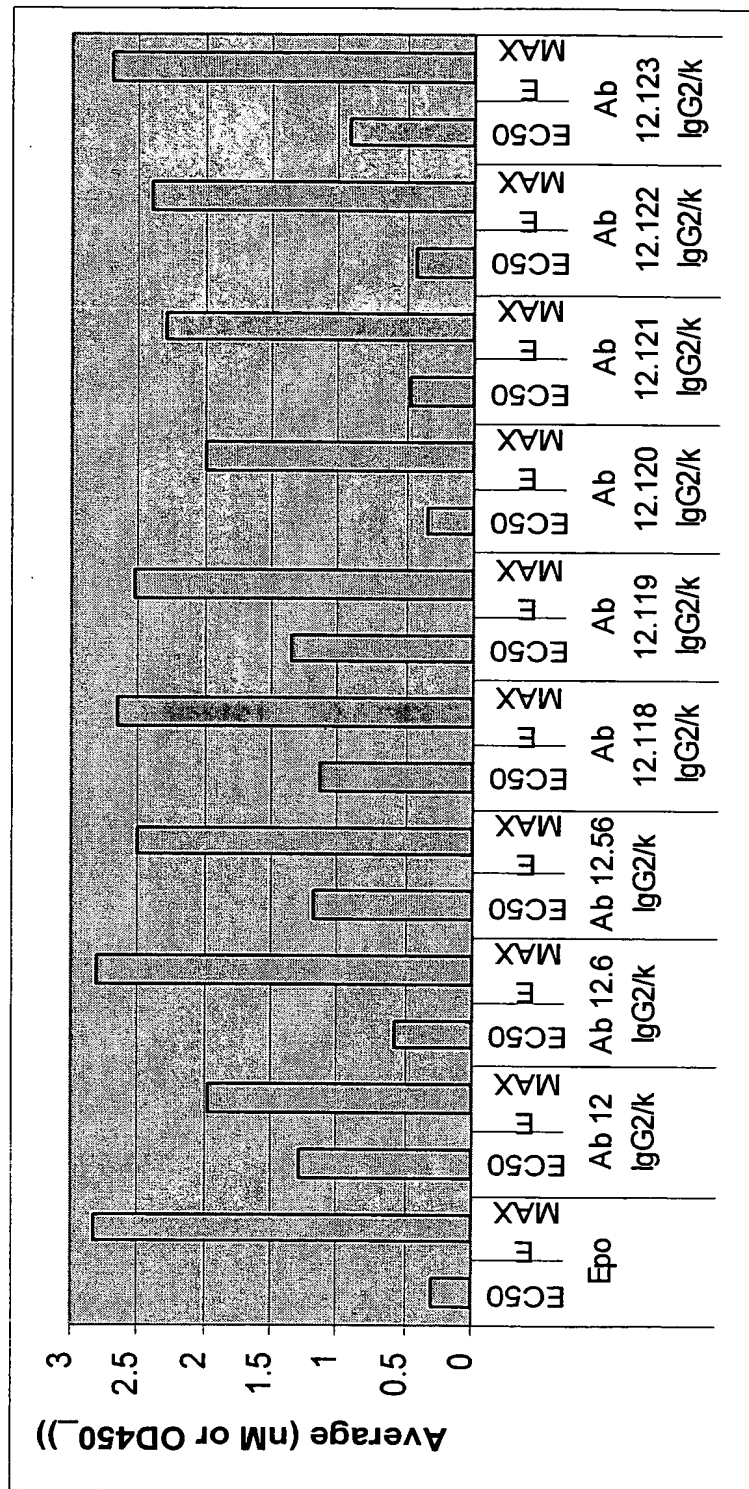
```
      Q V Q L Q E S G P G L V K P
1  CAGGTGCAGCTGCAGGAGTCGGGCCCAGGACTGGTGAAGCCT
   S E T L S L T C T V S G A S
43 TCGGAGACCCTGTCCCTCACCTGCACTGTCTCTGGTGCCTCC
   I S S Y Y W S W I R Q P P G
85 ATCAGTAGTTACTACTGGAGCTGGATCCGGCAGCCCCCAGGG
   K G L E W I G Y I G Y E G S
127 AAGGGACTGGAGTGGATTGGGTATATCGGGTACGAGGGGAGC
   T N Y N P S L K S R V T I S
169 ACCAACTACAACCCCTCCCTCAAGAGTCGAGTCACCATATCA
   V D T S K N Q F S L K L R S
211 GTAGACACGTCCAAGAACCAGTTCTCCCTGAAGCTGAGGTCT
   V T A A D T A V Y Y C A R E
253 GTGACCGCTGCGGACACGGCCGTGTATTACTGTGCGAGAGAG
   R L G I G D Y W G Q G T L V
295 CGACTGGGGATCGGGGACTACTGGGGCCAGGGAACCCTGGTC
   T V S S
337 ACCGTCTCCTCA
```

FIGURE 10

VL nucleic acid (SEQ ID NO:35) and corresponding
amino acid sequence (SEQ ID NO:17)Ab of Ab12,
Ab12.6 and Ab12.6-related antibodies

```
      D I Q L T Q S P S S L S A S
1  GACATCCAGCTGACCCAATCTCCATCCTCCCTGTCTGCATCT
   V G D R V T I T C R A S Q G
43 GTAGGAGACAGAGTCACCATCACTTGCCGGGCAAGTCAGGGC
   I R N D L G W Y Q Q K P G K
85 ATTAGAAATGATTTAGGCTGGTATCAGCAGAAACCAGGGAAA
   A P K R L I Y A A S S L Q S
127 GCCCCTAAGCGCCTGATCTATGCTGCATCCAGTTTGCAAAGT
   G V P S R F S G S G S G T E
169 GGGGTCCCATCAAGGTTTCAGCGGCAGTGGATCTGGGACAGAA
   F T L T I S S L Q P E D F A
211 TTCACTCTCACAATCAGCAGCCTGCAGCCTGAAGATTTTGCA
   T Y Y C L Q H N T Y P P T F
253 ACTTATTACTGTCTACAGCATAATACTTACCCTCCGACGTTC
   G Q G T K V E I K
295 GGCCAAGGGACCAAGGTGGAAATCAAA
```

FIGURE 11



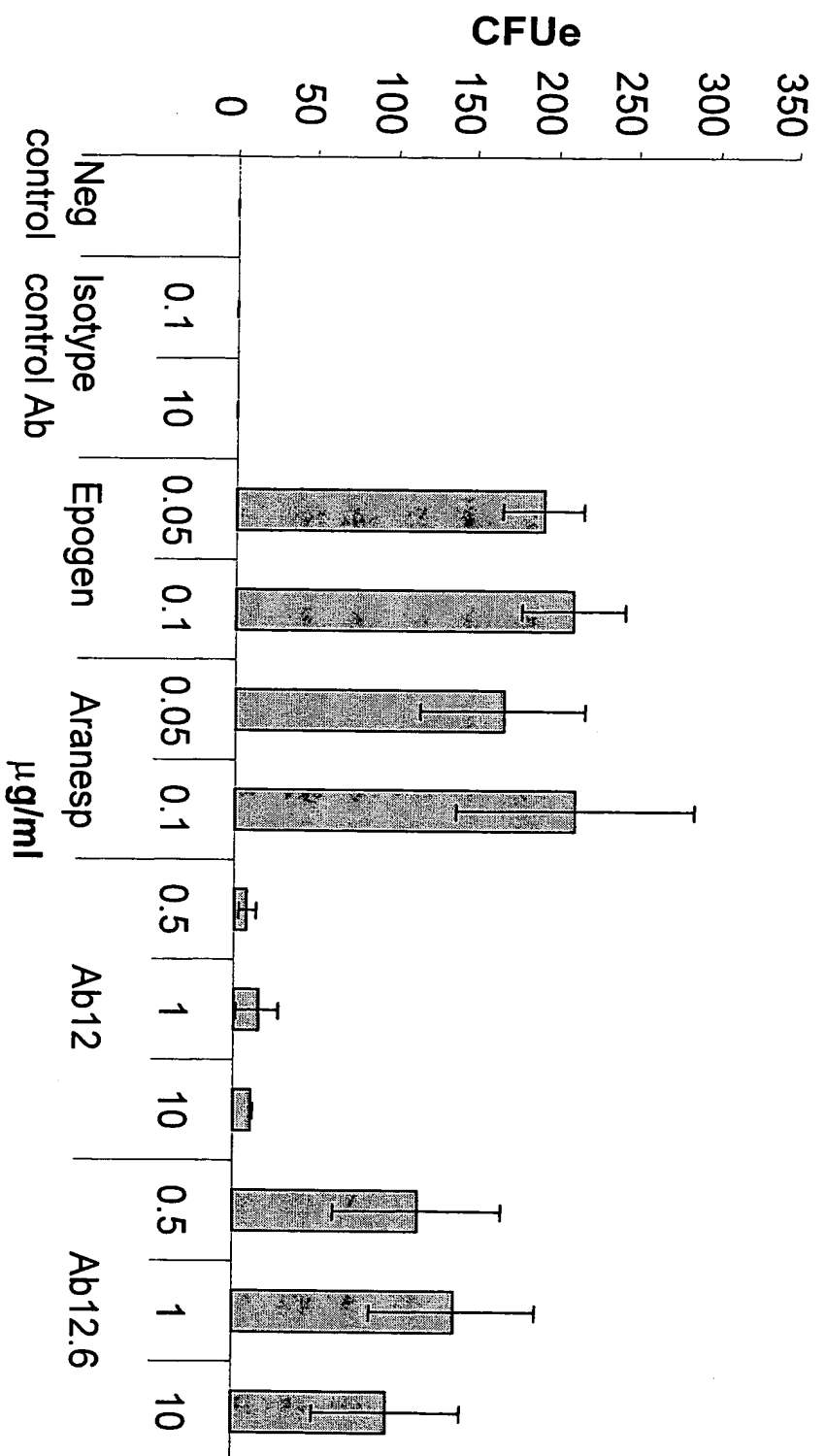


Figure 12

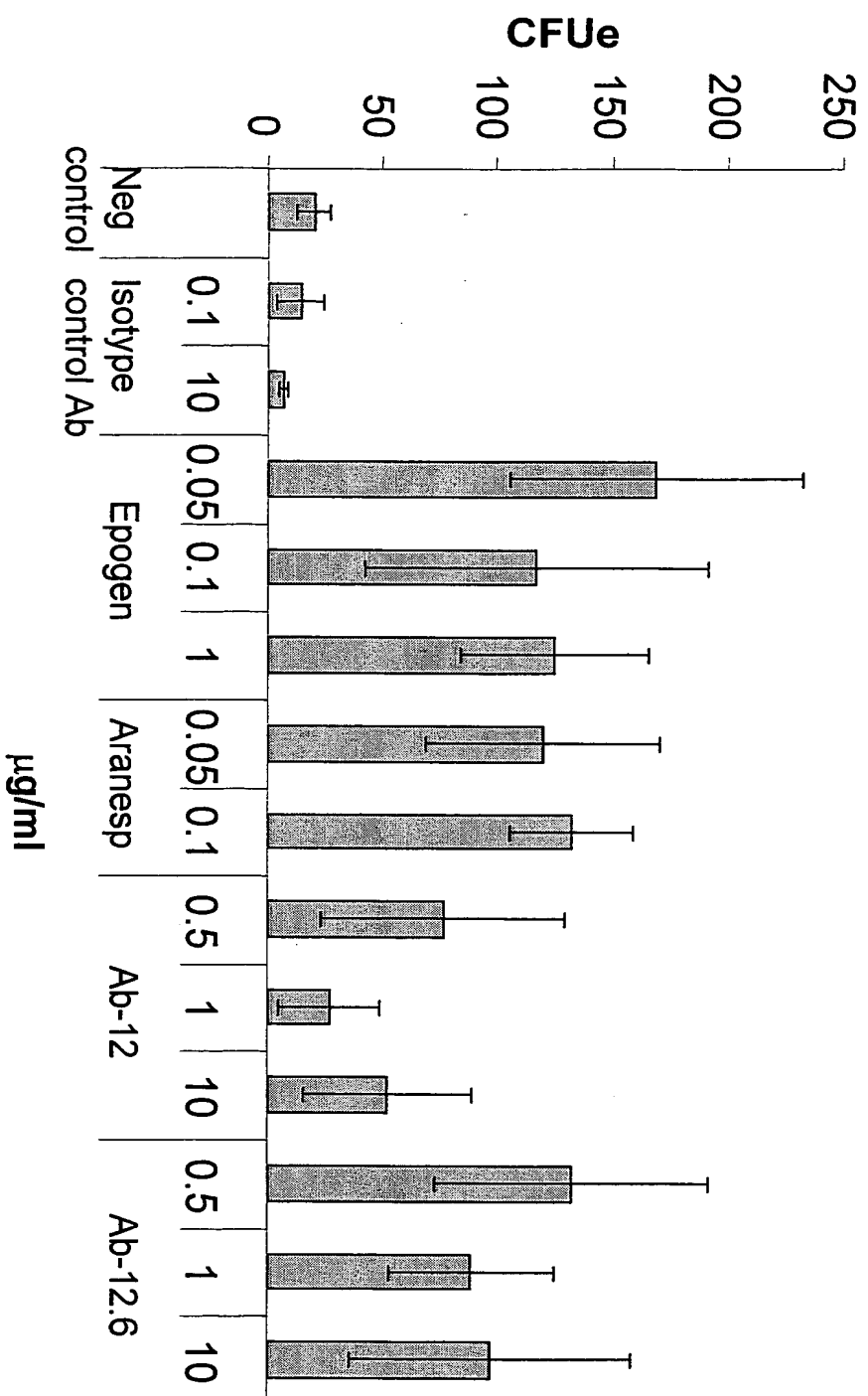


Figure 13

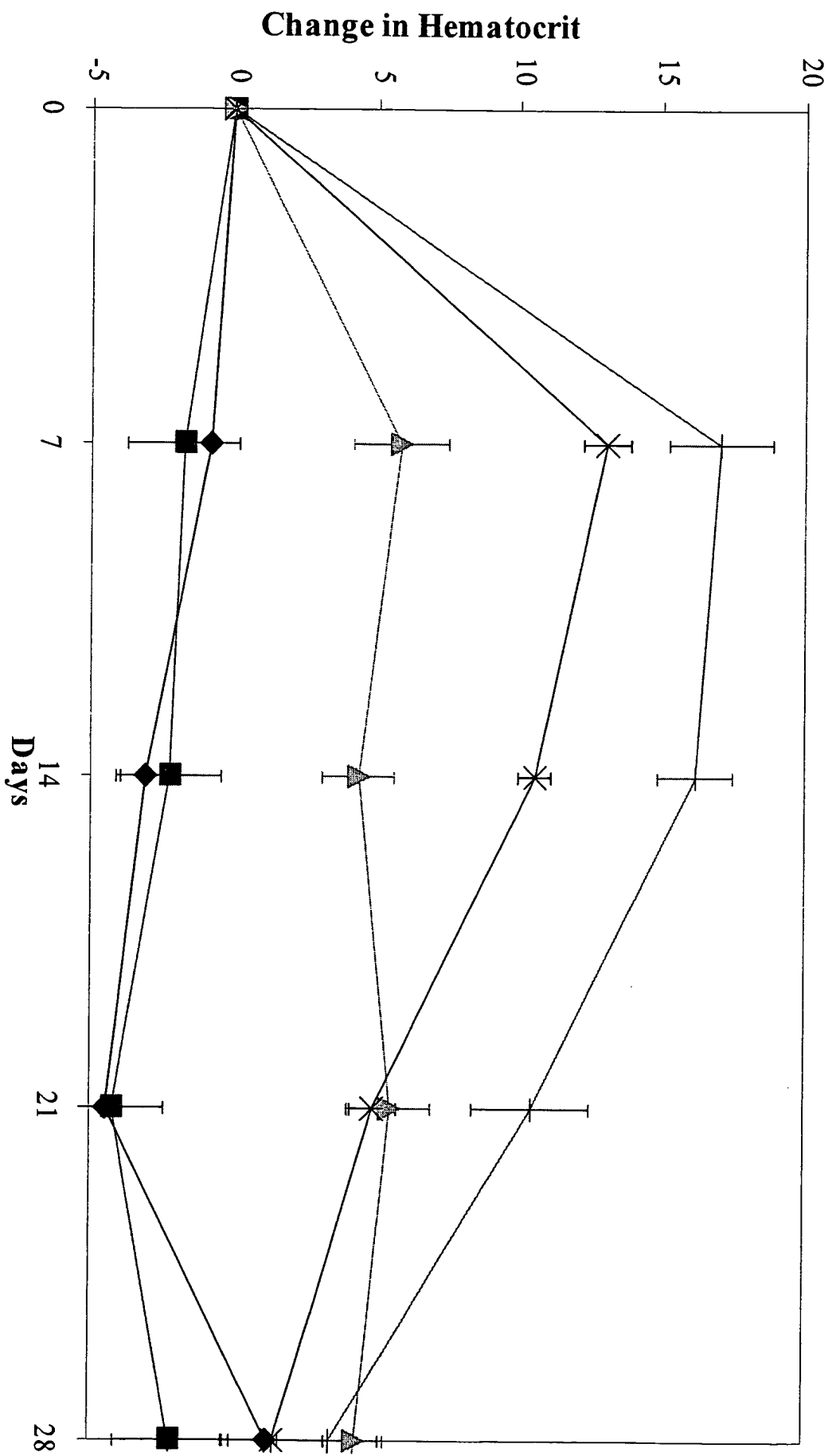


FIGURE 14